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Copyright (c) 1993 - 2000 Comp
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8-447-430A-40
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11.9	11.9	12.4	12.6	12.6	14.9	14.9	16.2	16.2	16.2	16.2	16.2	16.2	18.3	18.3	18.3	18.3	18.3
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8	Sequence 11, Appl	Sequence 1, Appli	Sequence 9, Appli	Sequence 12, Appl	Sequence 3, Appli	Sequence 2, Appli	Sequence 12, Appl	-	Sequence 16, Appl	~	•	Sequence 15, Appl	Sequence 10, Appl	Sequence 6, Appli	Sequence 3, Appli	Sequence 3, Appli	Patent No. 5453363

ALIGNMENTS

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Sequence 3, Application US/08106433A Patent No. 5385834 GENERAL INFORMATION:
TOPOLOGY: circular
MOLECULE TYPE: other nucleic acid
HYPOTHETICAL: No
ANTI-SENSE: No 5385834 applicable
ORIGINAL SOURCE:
ORGANISM: No. 5385834 applicable
STRAIN: No. 5385834 applicable
                                                                                                                                                                                                                                  TELEPHONE: 404-875-881
TELEFAX: 404-875-8505
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: No. 5385834 Applicable FILING DATE: No. 5385834 Applicable ATTORNEY/AGENT INFORMATION:
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MEDIUM TYPE: Diskette,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CORRESPONDENCE ADDRESS:
ADDRESSEE: Deveau, Colton, and Marquis
STREET: Two Midtown Plaza, Suite 1400,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE OF INVENTION: Mutant T7 RNA Polymerase GP1(Lys222)
TITLE OF INVENTION: Exhibiting Altered Promoter Recognition
NUMBER OF SEQUENCES: 23
                                                                                                                                                                                                                                                                                                                   TELECOMMUNICATION INFORMATION:
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COUNTRY:
ZIP: 303
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                                                                                                                                                                                                                                                                                                                                                            NAME: Deveau, Colton, and Marquis NAME: Colton, Laurence P. REGISTRATION NUMBER: Reg. No. 538
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER: Apple Macintosh
OPERATING SYSTEM: Mcintosh 7.1
SOFTWARE: Microsoft Word 5.1
                                                                                                                                                                                                                                                                                                                                KEGISTRATION NUMBER: Reg. No. 5385834 33,371
REFERENCE/DOCKET NUMBER: 10733-161
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FILING DATE: 08/13/93
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STATE: Georgia
                                                                                                                                                                      STRANDEDNESS: double
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                                                                                                                                                                                            H: 5096 base pairs nucleic acid
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PE: No. 5385834 applicable
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Matches 413; Conserv
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Best Local
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POSITION IN GENOME:
CHROMOSOME/SEGWENT: No. 5385834 applicable
MAP POSITION: No. 5385834 applicable
UNITS: No. 5385834 applicable
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PUBLICATION INFORMATION: AUTHORS: Brosius, J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PAGES: 54-68
DATE: 1987
DOCUMENT NUMBER:
FILING DATE:
PUBLICATION DATE:
RELEVANT RESIDUES I
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE:
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96.5%;
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Pred. No. 8.9e-91;
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CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION UNMBER: NO. 5385834 Applicable
FILING DATE: NO. 5385834 Applicable
FILING DATE: NO. 5385834 Applicable
ATTORNEY/AGENT INFORMATION:
NAME: Colton, Information:
NAME: Colton, Laurence P.
REGISTRATION NUMBER: Reg. NO. 5385834 33,371
REFERENCE/DOCKET NUMBER: 10733-161
TELECOMMUNICATION INFORMATION:
TELEPHONE: 404-875-8817
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 5110 base pairs
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INDIVIDUAL ISOLATE: NO. 5385834 applicable
DEVELOPMENTAL STAGE: NO. 5385834 applicable
HAPLOTYPE: NO. 5385834 applicable
TISSUE TYPE: NO. 5385834 applicable
CELL TYPE: NO. 5385834 applicable
ORGANELLE: NO. 5385834 applicable
IMMEDIATE SOURCE:
LIBRARY: NO. 5385834 applicable
CLONE: PCM-X#
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APPLICANT: Richard A.
NAME : 198 LOCATION: 198 LOCATION: 198 LOCATION METHOD: OTHER INFORMATION: If the control of the
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OPERATING SYSTEM: MCINTOSh 7.1
SOFTWARE: Microsoft Word 5.1
CURRENT APPLICATION DATA:
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MEDIUM TYPE: Diskette,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                      LIBRARY: No. 5385834 applicable
CLONE: pCM-X#
POSITION IN GENOME:
CHROMOSOME/SEGMENT: No. 5385834 applicable
MAP POSITION: No. 5385834 applicable
UNITS: No. 5385834 applicable
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ORIGINAL SOURCE:
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TITLE OF INVENTION: Exhibiting Altered Promoter Recognition
                                                                                                                                                                                                                                                                                                                                                                                           FEATURE:
                                                                                                                                                                                                           NAME/KEY:
NAME/KEY:
NAME/KEY:
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STRANDEDNESS: double
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2R: 10733-161
                                                                                   the
                                                                               The general clone was constructed from pKK232-8 and the potential T7 promoter between positions 198 and
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                                                                                                                                                                                             Sequence 5, Application US/08106433A Patent No. 5385834
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Best Local Similarity
Matches 413; Conserv
                                                                                                                                                                               GENERAL INFORMATION:
                                                                                                  APPLICANT: Richard A. Ikeda
TITLE OF INVENTION: Mutant;
TITLE OF INVENTION: Exhibit;
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
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                                         ADDRESSEE: Deveau, Colton, and Marquis STREET: Two Midtown Plaza, Suite 1400, STREET: 1360 Peachtree St., NE CITY: Atlanta
              STATE: G
COUNTRY:
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PUBLICATION DATE:
RELEVANT RESIDUES IN SEQ
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30309
            Georgia
Y: USA
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                                                                                                                                  Mutant T7 RNA Polymerase GP1(Lys222) Exhibiting Altered Promoter Recognition
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96.5%;
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Pred. No. 8.9e-91;
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SEQUENCE CHARACTERISTICS:
LENGTH: 5110 base pairs
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MOLECULE TYPE: oth
                                                                                                                                                                                                                                                             IDENTIFICATION METHOD: The clone was constructed from IDENTIFICATION METHOD: pKK233-8 and the inserted "promoter" was sequenced. OTHER INFORMATION: The T7 promoter between positions 198 and 220 is recogn PUBLICATION INFORMATION: AUTHORS: Ikeda, R.A., Chang, L.L., and Warshamana, G.S. TITLE: Selection and Characterization of a Mutant T7 TITLE: RNA POlymerase that Recognizes an Expanded Range TITLE: of T7-like Promoters
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 IMMEDIATE SOURCE:
LIBRARY: No. 5385834 applicable
CLONE: PCAT10-1
POSITION IN GENOME:
CHROMOSOME/SEGMENT: No. 5385834 applicable
MAP POSITION: No. 5385834 applicable
UNITS: No. 5385834 applicable
FEATURE:
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OPERATING SYSTEM: Mcintosh 7.1
SOFTWARE: Microsoft Word 5.1
CURRENT APPLICATION DATA:
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ORGANISM: No. 5385834 applicable
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LOCATION:
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INDIVIDUAL ISOLATE: NO. 5385834 applicable
DEVELOPMENTAL STAGE: NO. 5385834 applicable
HAPLOTYDE: NO. 5385834 applicable
TISSUE TYPE: NO. 5385834 applicable
CELL TYPE: NO. 5385834 applicable
ORGANELLE: NO. 5385834 applicable
                                                                                                                                                                                                    VOLUME:
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                                                      PUBLICATION DATE:
DOCUMENT NUMBER:
FILING DATE:
                                                                                                                    DOCUMENT NUMBER: FILING DATE:
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TELEFAX: 404-875-8505
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               PUBLICATION DATE: RELEVANT RESIDUES
                                                                                                                                                                                 PAGES:
                                                                                                                                                                                                                                           JOURNAL:
                                                                                                                                                             Sept.
                                                                                                                                                             9115-9124
Sept. 7, 19
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                                                                                                                                                                                                                                                Biochemistry
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                 SEQ
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ER: 10733-161
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US-08-106-433A-6
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COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.50 inch, 1.4 Mb Storag
COMPUTER: Apple Macintosh 7.1

SOFTWARE: Microsoft Word 5.1

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/106,433A

FILING DATE: 08/13/93

CLASSIFICATION 0A/13

CLASSIFICATION DATA:
APPLICATION NUMBER: No. 5385834 Applicable
FILING DATE: No. 5385834 Applicable
APPLICATION OLDER:
APPLICATION NUMBER: No. 5385834 Applicable
FILING DATE: No. 5385834 Applicable
ATTORNEY/AGENT INFORMATION:
NAME: Deveau, Colton, and Marquis
REGISTRATION NUMBER: Reg. No. 5385834 33,371

REFERENCE/DOCKET NUMBER: 10733-161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 6, Application US/08106433A Patent No. 5385834
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Best Local Similarity
Matches 413; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                               TITLE OF INVENTION: Mutant T7 R
TITLE OF INVENTION: Exhibiting ,
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: Deveau, Colton, and
STREET: Two Midtown Plaza, Su
STREET: 1360 Peachtree St., N
CITY: Atlanta
STATE: Georgia
COUNTRY: USA
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                                                                                                                                                                                                                                                                                                                    30309
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Exhibiting Altered Promoter Recognition
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96.5%;
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Suite 1400,
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Best Local
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TELEFAX: 404-875-8505
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
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CLONE: pCM-T297
POSITION IN GENOME:
CHROMOSOME/SEGMENT: No. 5385834 applicable
MAP POSITION: No. 5385834 applicable
UNITS: No. 5385834 applicable
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ORGANISM: No. 5385834 applicable
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LIBRARY: No. 5
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PUBLICATION DATE:
RELEVANT RESIDUES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AUTHORS: Ikeda, R.A., Chang, L.L., and Warshamana. TITLE: Selection and Characterization of a Mutant TITLE: RNA Polymerase that Recognizes an Expanded TITLE: of T7-like Promoters
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tgaaacgccgtagcgccgatggtagtgtggggtctcccccatgcgagagtaggggaactgcc 1386
                                                                                                                                                        aggcatcaaataaaacgaaaggctcagtcgaaagactgggcctttcgttttatctgttgt 1446
                                                                                                                              AGGCATCAAATAAAACGAAAGGCTCAGTCGAAAGACTGGGCCTTTCGTTTTATCTGTTGT
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Sept. 7, 1993
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: Sequence 7, Application US/08106433A 
: Patent No. 5385834
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INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 5110 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME: Deveau, COLC..., PARAME: Colton, Laurence P.
REGISTRATION NUMBER: Reg. No. 538583/
REFERENCE/DOCKET NUMBER: 10733-161
TELECOMMUNICATION INFORMATION:
TELEPHONE: 404-875-8817
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MEDIUM TYPE: Diskette, 3.50 inch, 1.4
COMPUTER: Apple Macintosh
OPERATING SYSTEM: Mcintosh 7.1
SOFTWARE: Microsoft Word 5.1
CURRENT APPLICATION DATA:
                                                                                                                    ANTI-SENDL.
FRAGMENT TYPE: NO. __
PRAGMENT TYPE: NO. __
ORIGINAL SOURCE:
O
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APPLICATION NUMBER: No. 5385834 Applicable
FILING DATE: No. 5385834 Applicable
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT:
                                                                                                                                                                                                                                                                                                                                                   MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                               HYPOTHETICAL:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: UFILING DATE: 08/13/93 CLASSIFICATION: 435
                       STRAIN: No. 5385834 applicable INDIVIDUAL ISOLATE: No. 5385834 applicable DEVELOPMENTAL STAGE: No. 5385834 applicable HAPLOTYPE: No. 5385834 applicable TISSUE TYPE: No. 5385834 applicable
                                                                                                                                                                                                                                                                                                                                                                                     TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: nucleic acid
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STATE: Georgia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADDRESSEE: Deveau, Colton, and Marquis STREET: Two Midtown Plaza, Suite 1400, STREET: 1360 Peachtree St., NE
                                                                                                                                                                                                                                                                                                                                                                                                               STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAGCAACGGCCCGGAGGGTGGCGGGCAGGACGCCCGCCATAAACTGCCAGGCATCAAATT
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   TYPE:
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5385834 applicable
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Exhibiting Altered Promoter Recognit
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Best Local Similarity
Matches 413; Conserv
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 1671
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CLONE: pCM-P1160
POSITION IN GENOME:
CHROMOSOME/SEGMENT: No. 5385834 applicable
MAP POSITION: No. 5385834 applicable
                                                                                                                                          1567
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                                                        1611
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PAGES: 9115-9124
DATE: Sept. 7, 19
DOCUMENT NUMBER:
FILING DATE:
PUBLICATION DATE:
DOCUMENT NUMBER:
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TITLE:
TITLE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE:
PUBLICATION DATE:
RELEVANT RESIDUES IN SEQ ID
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ISSUE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         VOLUME:
                                                                                                                                                                                                                          tgaaacgccgtagcgccgatggtagtgtggggtctcccccatgcgagagtagggaactgcc
GCAGCTGT
                            gcagctat 1694
                                                                    atatctacaagccatccccccacagatacggtaaactagcctcgtttttgcatcaggaaa
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                                                      ATATCTACAAGCCATCCCCCCACAGATACGGTAAACTAGCCTCGTTTTTGCATCAGGAAA
                                                                                                             AAGCAGAAGGCCATCCTGACGGATGGCCTTTTTGCGTTTCTACAAACTCTTCCTGTCGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 S: Ikeda, R.A., Chang, L.L., and Warshamana, G.S. Selection and Characterization of a Mutant T7 RNA Polymerase that Recognizes an Expanded Range of T7-like Promoters
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Sept. 7, 1993
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1678
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96.5%;
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Pred. No. 8.9e-91;
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RESULT 6 US-08-106-433A-8

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Sequence 8, Patent No.
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TITLE OF INVENTION: Mut
TITLE OF INVENTION: EX-
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EMULENCE
LENGTH: 5110 base proceeding acid
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: circular
MOLECULE TYPE: other nuc
"""DOTHETICAL: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEFAX: 404-875-8505
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                   UNITS: NO. FEATURE: NAME/KEY: LOCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE: No. 5385834 Applicable ATTORNEY/AGENT INFORMATION:
NAME: Deveau, Colton, and Marquis
NAME: Colton, Laurence P.
REGISTRATION NUMBER: Reg. No. 538583.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADDRESSEE: Deveau, Colton, ar
STREET: Two Midtown Plaza, Su
STREET: 1360 Peachtree St., N
CITY: Atlanta
STATE: Georgia
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MEDIUM TYPE: Diskette, 3.50 inch, 1.4
COMPUTER: Apple Macintosh
OPERATING SYSTEM: Mcintosh 7.1
SOFTWARE: Microsoft Word 5.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: NO. 5385834 applicable
ORIGINAL SOURCE:
ORGANISM: NO. 5385834 applicable
STRAIN: NO. 5385834 applicable
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CURRENT APPLICATION DATA: APPLICATION NUMBER: US
                                                                   PUBLICATION INFORMATION: AUTHORS: Ikeda, R.A.,
                                                                                                                                                                                                                                                     LIBRARY: No. 5385834 applicable
CLONE: pcM-T270
POSITION IN GENOME:
CHROMOSOME/SEGMENT: No. 5385834 applicable
MAP POSITION: No. 5385834 applicable
UNITS: No. 5385834 applicable
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TELEPHONE: 404-875-8817
TELEFAX: 404-875-8505
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILING DATE: 08/13/93
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: N
                                                                                                                                                                                                                                                                                                                                                                                                 MMEDIATE SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                     STRAIN: No. 5385834 applicable
INDIVIDUAL ISOLATE: No. 5385834 applicable
DEVELOPMENTAL STAGE: No. 5385834 applicable
HAPLOTYPE: No. 5385834 applicable
TISSUE TYPE: No. 5385834 applicable
CELL TYPE: No. 5385834 applicable
ORGANELLE: No. 5385834 applicable
                                                                                                             IDENTIFICATION METHOD: The clone was constructed from IDENTIFICATION METHOD: pKK232-8 and the inserted "promoter" was sequenced. OTHER INFORMATION: If the mutant T7 promoter between positions 198 and 220
                                                                                                                                                             NAME/KEY: Inactive T7 LOCATION: 198 to 220 IDENTIFICATION METHOD:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REGISTRATION NUMBER: Reg. No. 5385834 33,371 REFERENCE/DOCKET NUMBER: 10733-161
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5, 5385834
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Selection and Characterization of a Mutant T7 RNA Polymerase that Recognizes an Expanded Range of T7-like Promoters
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Microsoft Word 5.1
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Mutant T7 RNA Polymerase GP1(Lys222)
Exhibiting Altered Promoter Recognition
                                                                                                                                                                                                           T7 f10 promoter mutant (-9C to A) located between nucle
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                                                                   Chang, L.L.,
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Suite 1400,
                                              and Warshamana, G.S.
ion of a Mutant T7
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US-08-106-433A-9
; Sequence 9, Application US/08106433A; Patent No. 5385834; GENERAL INFORMATION:
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Best Local S
Matches 413
  COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5
COMPUTER: Apple Macintosh
OPERATING SYSTEM: Mcintosh
SOFTWARE: Microsoft Word 5
                                                                                                                                  CORRESPONDENCE ADDRESS:
ADDRESSEE: Deveau, Colton, and Marquis
STREET: Two Midtown Plaza, Suite 1400,
STREET: 1360 Peachtree St., NE
                                                                                                                                                                                                     APPLICANT: Richard A. Ikeda
TITLE OF INVENTION: Mutant T7 RNA Polymerase GP1(Lys222)
TITLE OF INVENTION: Exhibiting Altered Promoter Recognit
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                                                                                                                                                                                            NUMBER OF SEQUENCES:
                                                                                      CITY: Atlanta
STATE: Georgia
COUNTRY: USA
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PUBLICATION DATE:
RELEVANT RESIDUES
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DOCUMENT NUMBER:
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DATE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                tgaaacgccgtagcgccgatggtagtgtggggtctcccccatgcgagagtaggggaactgcc 1386
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Sept. 7, 1993
SYSTEM: Mcintosh 7.1 Microsoft Word 5.1
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Pred. No. 8.9e-91;
0; Mismatches 15
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CURRENT APPLICATION DATA:

US/08/106,433A

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                                                               Best Local Similarity Matches 413; Conserv
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SEQUENCE CHARACTERISTICS:
LENGTH: 5110 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                           PUBLICATION INFORMATION:
AUTHORS: Ikeda, R.A., Chang, L.L., and Warshamana, G.S.
TITLE: Selection and Characterization of a Mutant T7
TITLE: RNA Polymerase that Recognizes an Expanded Range
TITLE: of T7-like Promoters
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ORIGINAL SOURCE:
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1267 agagtcgacctgcaggcatgcaagcttgggtcccacctgaccccatgccgaactcagaag 1326
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LIBRARY: No. 5
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LOCATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               IDENTIFICATION METHOD: The clone was constructed from IDENTIFICATION METHOD: pKK232-8 and the inserted "promoter" was OTHER INFORMATION: If the mutant T7 promoter between positions ?
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TISSUE TYPE: No. 5385834 applicable CELL TYPE: No. 5385834 applicable ORGANELLE: No. 5385834 applicable
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                                                                                                                                                                                    FILING DATE:
PUBLICATION DATE:
RELEVANT RESIDUES IN SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CHROMOSOME/SEGMENT: No. 5385834 applicable MAP POSITION: No. 5385834 applicable
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Sept. 7, 1
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96.5%;
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                                                               Score 404; DB 1;
Pred. No. 8.9e-91;
0; Mismatches 15
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RESULT 8
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APPLICANT: Richar
                                                            TELEFAX: 404-875-8505 INFORMATION FOR SEQ ID NO:
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TITLE OF INVENTION:
NUMBER OF SEQUENCES:
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                                                                            TELECOMMUNICATION INFORMATION:
TELEPHONE: 404-875-8817
TELEFAX: 404-875-8505
                                                                                                                                                                                                                                                                                                                                      COMPUTER: Apple Macintosh
OPERATING SYSTEM: Mcintosh 7
SOFTWARE: Microsoft Word 5.1
CURRENT APPLICATION DATA:
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MEDIUM TYPE: Diskette,
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                                                                                                                                                                                                                                                                  CLASSIFICATION: 435 PRIOR APPLICATION DATA:
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                                         SEQUENCE CHARACTERISTICS:
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                                                                                                                             NAME: Deveau, Colton, and NAME: Colton, Laurence P. REGISTRATION NUMBER: Reg REFERENCE/DOCKET NUMBER: 1
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                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: US/08/106,433A FILING DATE: 08/13/93
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STATE: Georgia
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                   LENGTH:
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5110 base pairs
ucleic acid
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                                                                                                                                     Reg. No. 5385834 33,371
gr: 10733-161
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AUTHORS: Ikeda, R.A., Chang, L.L., and Warshamana TITLE: Selection and Characterization of a Mutant TITLE: RNA POLymerase that Recognizes an Expanded TITLE: of T7-like Promoters
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ORGANISM: No. 5385834 applicable
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PUBLICATION DATE:
DOCUMENT NUMBER:
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DATE: Sept. 7, 1993
DOCUMENT NUMBER:
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                                                                                                                         aagcagaaggccatcctgacggatggcctttttgcgtttctacaaactcttcctgtcgtc
                                                    AAGCAACGGCCCGGAGGGTGGCGGGCAGGACGCCCGCCATAAACTGCCAGGCATCAAATT
                                                                       aagcaacggcccggagggtggcgggcaggacgcccgccataaactgccaggcatcaaatt
                                                                                                                                                                                                                                                                       TGAAACGCCGTAGCGCCGATGGTAGTGTGGGGTCTCCCCCATGCGAGAGTAGGGAACTGCC
                                                                                                                                                                                                                                                                                        tgaaacgccgtagcgccgatggtagtgtggggtctcccccatgcgagagtagggaactgcc 1386
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PE: No. 5385834 applicable
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                                                                                                                                                                                                                                                                                                                                                                                                                 Score 404; DB 1;
Pred. No. 8.9e-91;
0; Mismatches 15
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ion of a Mutant T7
zes an Expanded Range
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198 and 220 is
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RESULT 9
US-08-106-433A-11
; Sequence 11, Ap
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEPHONE: 404-875-8817
TELEFAX: 404-875-8505
INFORMATION FOR SEQ ID NO: 1
SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                            HYPOTHETICAL: NO
ANTI-SENSE: NO. 5385834 applicable
ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION UMBER: No. 5385834 Applicable
FILING DATE: No. 5385834 Applicable
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDIUM TYPE: Diskette, 3.50
COMPUTER: Apple Macintosh
OPERATING SYSTEM: Mcintosh 7
SOFTWARE: Microsoft Word 5.1
CURRENT APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1551 AAGCAGAAGGCCATCCTGACGGATGGCCTTTTTGCGTTTCTACAAACTCTTCCTGTCGTC 1610
                                       POSITION IN GENOME:
                                                                               IMMEDIATE SOURCE:
                                                                                                                       HAPLOTYPE: No. 5385834 applicable TISSUE TYPE: No. 5385834 applicable CELL TYPE: No. 5385834 applicable ORGANELLE: No. 5385834 applicable
                                                                                                                                                                                                        STRAIN: No. 5385834 applicable INDIVIDUAL ISOLATE: No. 5385834 applicable DEVELOPMENTAL STAGE: No. 5385834 applicable
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME: Deveau, Colton, and Marquis NAME: Colton, Laurence P. REGISTRATION NUMBER: Reg. No. 538
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ZIP: 30309
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADDRESSEE: Deveau, Colton, and Marquis STREET: Two Midtown Plaza, Suite 1400, STREET: 1360 Peachtree St., NE
CHROMOSOME/SEGMENT: MAP POSITION: No.
                                                                                                                                                                                                                                                                                                                                                                                                         TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REGISTRATION NUMBER: Reg. No. 5385834 33,371 REFERENCE/DOCKET NUMBER: 10733-161
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                                                                                                                                                                                                                                                                           ORGANISM:
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MENT: No. 5385834 applicable No. 5385834 applicable
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US-08-106-433A-12
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Matches
               Sequence 12, Application US/08106433A
Patent NO. 5385834
GENERAL INFORMATION:
APPLICANT: Richard A. Ikeda
TITLE OF INVENTION: Mutant T7 RNA
TITLE OF INVENTION: Exhibiting Al
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AUTHORS: Ikeda, R.A.,
   NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PAGES: 9115-9124
DATE: Sept. 7, 19
DOCUMENT NUMBER:
FILING DATE:
PUBLICATION DATE:
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nes 413; Conservation
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IDENTIFICATION METHOD: The clone was constructed from IDENTIFICATION METHOD: pKK232-8 and the inserted "promoter" was sequenced. OTHER INFORMATION: If the mutant T7 promoter between positions 198 and 220
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILING DATE:
PUBLICATION DATE:
RELEVANT RESIDUES IN SEQ ID NO:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Selection and Characterization of a Mutant T7 RNA Polymerase that Recognizes an Expanded Range of T7-like Promoters
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Mutant T7 RNA Polymerase GP1(Lys222)
Exhibiting Altered Promoter Recognition
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0;
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TELEFAX: 404-875-8505
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
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FRAGMENT TYPE: NO. ..
ORIGINAL SOURCE:
ORGANISM: NO. 5385834 applicable
ORGANISM: NO. 5385834 applicable
ORGANISM: NO. 5385834 applicable
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HYPOTHETICAL: N
ANTI-SENSE: NO
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OPERATING SYSTEM: Mcintosh 7.1
SOFTWARE: Microsoft Word 5.1
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                    OTHER INFORMATION: The PUBLICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELECOMMUNICATION INFORMATION: TELEPHONE: 404-875-8817
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                                                                                                                                                                                                                                                                                                                                                                                                                 FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CLONE: pCM-B64
POSITION IN GENOME:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     IMMEDIATE SOURCE:
                PAGES: 9115-9124
DATE: Sept. 7, 19
DOCUMENT NUMBER:
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STRAIN: No. 5385834 applicable IMDIVIDUAL ISOLATE: No. 5385834 applicable DEVELOPMENTAL STAGE: No. 5385834 applicable HAPLOTYPE: No. 5385834 applicable TISSUE TYPE: No. 5385834 applicable CELL TYPE: No. 5385834 applicable ORGANELLE: No. 5385834 applicable
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STRANDEDNESS: double
TOPOLOGY: circular
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: FILING DATE: 08/13/CLASSIFICATION: 435
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                                                                                                                                                                         TITLE: Selection and Characterization of a Mutant TITLE: RNA Polymerase that Recognizes an Expanded TITLE: of T7-like Promoters
                                                                                                                                                                                                                                                                                                               NAME/KEY: Intermediate T7 f10 promoter mutant (-8T to C) LOCATION: 198 to 220 IDENTIFICATION METHOD: The clone was constructed from IDENTIFICATION METHOD: pKK232-8 and the inserted "promote"
                                                                                                                                                                                                                                                                                                                                                                                                                             CHROMOSOME/SEGMENT: No. 5385834 applicable MAP POSITION: No. 5385834 applicable UNITS: No. 5385834 applicable
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STATE: Georgia
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                                                                                                                                VOLUME:
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                                                                                                                                                                                                                                                   AUTHORS:
PUBLICATION DATE:
                                                                                                           ISSUE:
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                                                                                                                                                                                                                           Ikeda, R.A., Chang, L.L., and Warshamana, G.S. election and Characterization of a Mutant T7
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                                                                                                                                                        Biochemistry
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                                                                                                                                                                                                                                                                                         OD: pKK232-8 and the inserted "promoter" The mutant T7 promoter between positions
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ER: 10733-161
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                                                                                                                                                                                                                                                                           from promoter" was sequenced. nositions 198 and 220 1:
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between

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; DOCUMENT NUMBER:
; FILING DATE:
; PUBLICATION DATE:
; RELEVANT RESIDUES IN SEQ ID
US-08-106-433A-12
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Best Local S
Matches 413
                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 13, Application US/08106433A
Patent No. 5385834
GENERAL INFORMATION:
APPLICANT: Richard A. Ikeda
                                               COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.
COMPUTER: Apple Macintosh
OPERATING SYSTEM: Mcintosh 7.1
SOFTWARE: Microsoft Word 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/106,433A
FILLING DATE: 08/13/93
CLASSIFICATION: 435
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                                                                                                                                                                                                                                                                             CORRESPONDENCE ADDRESS:
ADDRESSEE: Deveau, Colton, and Marquis
STREET: Two Midtown Plaza, Suite 1400,
STREET: 1360 Peachtree St., NE
                                  PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                     NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                    TITLE OF INVENTION:
                                                                                                                                                                                                              CITY: Atlanta
STATE: Georgia
COUNTRY: USA
ZIP: 30309
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 APPLICATION NUMBER: No. 5385834
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                                                                                                                                                                                                                                                                                                                                                Mutant T7 RNA Polymerase GP1(Lys222)
Exhibiting Altered Promoter Recognit
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5385834 Applicable
4 Applicable
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Best Local Similarity 96.:
Matches 413; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM: No. 5385834 applicable
STRAIN: No. 5385834 applicable
INDIVIDUAL ISOLATE: No. 5385834 applicable
DEVELOPMENTAL STAGE: No. 5385834 applicable
TISSUE TYPE: No. 5385834 applicable
TISSUE TYPE: No. 5385834 applicable
CELL TYPE: No. 5385834 applicable
ORGANELLE: No. 5385834 applicable
IMMEDIATE SOURCE:
LIBRARY: No. 5385834 applicable
CLONE: PCM-P1208
POSITION IN GENOME:
CHROMOSOME/SEGMENT: No. 5385834 applicable
MAP POSITION: No. 5385834 applicable
UNITS: No. 5385834 applicable
FEATURE:
FARTURE: No. 5385834 applicable
UNITS: No. 5385834 applicable
FEATURE: No. 5385834 applicable
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME/KEY: Inactive T7 f10 promoter mutant (-7C to G) located between nucle LOCATION: 198 to 220
IDENTIFICATION METHOD: The clone was constructed from IDENTIFICATION METHOD: pKK232-8 and the inserted "promoter" was sequenced. OTHER INFORMATION: If the mutant T7 promoter between positions 198 and 220 PUBLICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MOLECULE NO
HYPOTHETICAL: NO
ANTI-SENSE: NO
TYPE: NO. 5385834 applicable
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                                                                                                                                        1251 AGAATTTGCCTGGCGCAGTAGCGCGGTGGTCCCACCTGACCCCATGCCGAACTCAGAAG 1310
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AUTHORS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                              PUBLICATION DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ISSUE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 VOLUME:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    JOURNAL:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DOCUMENT NUMBER:
                                                                                                                                                             agagtcgacctgcaggcatgcaagcttgggtcccacctgaccccatgccgaactcagaag 1326
aggcatcaaataaaacgaaaggctcagtcgaaagactgggcctttcgttttatctgttgt 1446
                                                                      tgaaacgccgtagcgccgatggtagtgtgggggtctcccccatgcgagagtaggggaactgcc 1386
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    S: Ikeda, R.A., Chang, L.L., and Warshamana, G.S. Selection and Characterization of a Mutant T7 RNA Polymerase that Recognizes an Expanded Range of T7-like Promoters
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sept.
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Colton, Laurence P.
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Sept. 7, 1993
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R: 10733-161
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US-08-106-433A-14
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MEDIUM TYPE: Diskette, 3.50 inch, 1.4 Mb Storag.

COMPUTER: Apple Macintosh 7.1

SOFTWARE: Microsoft Word 5.1

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/106,433A

FILING DATE: 08/13/93

CLASSIFICATION E 435

PRIOR APPLICATION NUMBER: NO. 5385834 Applicable
APPLICATION NUMBER: NO. 5385834 Applicable
FILING DATE: NO. 5385834 Applicable
APPLICATION NUMBER: NO. 5385834 Applicable
FILING DATE: NO. 5385834 Applicable
APPLICATION NUMBER: NO. 5385834 Applicable
APPLICATION NUMBER: NO. 5385834 Applicable
AFFORMEY/AGENT INFORMATION:

NAME: Colton, Laurence P.

REGISTRATION NUMBER: Reg. NO. 5385834 33,371

REFERENCE/DOCKET NUMBER: 10733-161

TELECOMMUNICATION INFORMATION:
TELEPHONE: 404-875-8807

TELEPHONE: A04-875-8807
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
                                                                                                                                          TELEPAX: 404-875-8505
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 5110 base pairs
MOLECULE TYPE: other
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: NO. 5
ORIGINAL SOURCE:
ORGANISM: NO. 5385
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CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITLE OF INVENTION: Mutant T7 RNA Polymerase GP1(Lys222)
TITLE OF INVENTION: Exhibiting Altered Promoter Recognition
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADDRESSEE: Deveau, Colton, and Marquis STREET: Two Midtown Plaza, Suite 1400, STREET: 1360 Peachtree St., NE CITY: Atlanta STATE: Georgia COUNTRY: USA ZIP: 30309
                                                                                        TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: circular
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                                                                             other nucleic acid
 5385834 applicable
                               5385834 applicable
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Best Local
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; PUBLICATION DATE:
; RELEVANT RESIDUES
US-08-106-433A-14
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PUBLICATION INFORMATION: AUTHORS: Ikeda, R.A.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LIBRARY: No. 5385834 applicable
CLONE: pCM-P1031
POSITION IN GENOME:
CHROMOSONE/SEGMENT: No. 5385834 applicable
MAP POSITION: No. 5385834 applicable
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1267 agagtcgacctgcaggcatgcaagcttgggtcccacctgaccccatgccgaactcagaag 1326
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME/KEY: Inactive T7 f10 promoter mutant (-7C to A) located between nucle LOCATION: 198 to 220 IDENTIFICATION METHOD: The clone was constructed from LDENTIFICATION METHOD: pKK233-8 and the inserted "promoter" was sequenced. OTHER INFORMATION: If the mutant T7 promoter between positions 198 and 220
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TITLE: RNA POLYMERASE CHARLES
TITLE: of T7-like Promoters
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PUBLICATION DATE:
DOCUMENT NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE:
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                                                                                                                                                                                                         aagcagaaggccatcctgacggatggccttttttgcgttttctacaaaactcttcctgtcgtc 1626
                                                                                                                                   AAGCAACGGCCCGGAGGGTGGCGGGCAGGACGCCCGCCATAAACTGCCAGGCATCAAATT
                                                     AAGCAGAAGGCCATCCTGACGGATGGCCTTTTTTGCGTTTCTACAAACTCTTCCTGTCGTC
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Sept. 7, 1993
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NUMBER:
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3.9e-91;
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RESULT 13
US-08-106-433A-15
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NAME: Deveau, Colton, and Marquis

NAME: Colton, Laurence p.

REGISTRATION NUMBER: 10733-161

TELECOMMUNICATION INFORMATION:

TELECOMMUNICATION INFORMATION:

TELEPHONE: 404-875-8817

TELEPHONE: 404-875-8817

TELEPHONE: 404-875-8505

INFORMATION FOR SEQ ID NO: 15:

SEQUENCE CHARACTERISTICS:
LENGTH: 5110 base pairs

TYPE: nucleic acid

STRANDEDNESS: double

TOPOLOGY: circular
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FRACMENT TYPE: NO. 5385834 applicable
CORIGINAL SOURCE:

ORIGINAL SOURCE:

ORIGINAL SOURCE:

CORNERS NO. 5385834 applicable

CORNERS NO. 5385834 applicable
                                                                                                                         UNITS:
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FILING DATE: 08/13/93
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: NO. 5385834 Applicable
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MEDIUM TYPE: Diskette, 3.50 inc
COMPUTER: Apple MacLintosh
OPERATING SYSTEM: Mcintosh 7.1
SOFTWARE: Microsoft Word 5.1
CURRENT APPLICATION DATA:
                                                                                                                                     CLIONE: PCM-T221
POSITION IN GENOME:
CHROMOSOME/SEGMENT: No. 5385834 applicable
MAP POSITION: No. 5385834 applicable
UNITS: No. 5385834 applicable
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STATE: Georgia
COUNTRY: USA
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TITLE OF INVENTION:
NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                        STRAIN: NO. 5385834 applicable
INDIVIDUAL ISOLATE: NO. 5385834 applicable
DEVELOPMENTAL STAGE: NO. 5385834 applicable
HAPLOTYPE: NO. 5385834 applicable
TISSUE TYPE: NO. 5385834 applicable
CELL TYPE: NO. 5385834 applicable
ORGANELLE: NO. 5385834 applicable
ORGANELLE: NO. 5385834 applicable
ORGANELLE: NO. 5385834 applicable
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  NAME/KEY: Intermediate T7 f10 promoter mutant (-6A to LOCATION: 198 to 220 IDENTIFICATION METHOD: The clone was constructed from IDENTIFICATION METHOD: pKK232-8 and the inserted "promother INFORMATION: The mutant T7 promoter between positions of the promoter between positions of the promoter between positions of the promoter between positions."
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Exhibiting Altered Promoter Recognit:
The clone was constructed from pKK232-8 and the inserted "promoter" mutant T7 promoter between positions
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                                                                                                                                                          Sequence 2, Patent No.
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Best Local Similarity
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                                                                                                                                               GENERAL INFORMATION:
                                                                                                        APPLICANT:
APPLICANT:
                                                                            APPLICANT: Shaw, Anita J.

APPLICANT: Altaras, Nedim E.

TITLE OF INVENTION: MICROBIAL PRODUCTION OF

TITLE OF INVENTION: FROM SUGAR
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STREET: OULL
CITY: Madison
CMATE: WI
                                                      NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
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                                           ADDRESSEE:
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                                                                                                                                                          Application US/08801344 6087140
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Sept. 7, 1993
                          E: DeWitt Ross & Stevens
8000 Excelsior Drive, Sui
                                                                                                                                 Cameron, Douglas C.
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Suite 401
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COMPUTER READABLE FORM:

Floppy disk

RY: U.S.A. 53717-1914

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ANTI-SENSE: NO ORIGINAL SOURCE: ORGANISM: Vector US-08-801-344-2
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                                                        Sequence 2, Application US/09498599 Patent No. 6303352 GENERAL INFORMATION:
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Best Local Similarity
Matches 349; Conserv
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INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 4476 base pairs
TYPE: nucleic acid
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APPLICATION NUMBER: US/08/801.344
FILING DATE:
CLASSTETATO
APPLICANT: Cameron, Douglas C. APPLICANT: Shaw, Anita J. APPLICANT: Altaras, Nedim E. TITLE OF INVENTION: MICROBIAL
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ATTORNEY/AGENT INFORMATION:
NAME: Sara, Charles S.
REFERENCE/DOCKET NUMBER:
                                                                                                                                                                  1063 TTTTCTAAATACATTC
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COMPUTER: IE
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Nedim E.
MICROBIAL PRODUCTION OF
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 332.8; DB 3
Pred. No. 3.4e-73;
0; Mismatches 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              27;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 4476;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 18.6%;
Best Local Similarity 92.8%;
Matches 349; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MOLECULE TYPE: I
HYPOTHETICAL: NO
ANTI-SENSE: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEFAX: 608-831-2106
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                        1447
                                                                                                                                                                                                                                                                                                            1387
                                                                                                                                                                                                                                                                                                                                                                                1327
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ORIGINAL SOURCE:
ORGANISM: Vec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE CHARACTERISTICS:
LENGTH: 4476 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ATTORNEY/AGENT INFORMATION:
NAME: Sara, Charles S.
REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CURRENT APPLICATION DATA: APPLICATION NUMBER: US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                   1567
                                                                                                                                                                       1507
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE OF INVENTION: NUMBER OF SEQUENCES:
                                                                     1003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STREET: 8000 E
CITY: Madison
STATE: WI
                                                                                                                                                                                                                                                                                                                                                                                                                 703
                                                                                                                                     943
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                                                                                                                                                                                                                                                                          823
                                                                                                                                                                                                                                                                                                                                            763
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OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COUNTRY: U.S.A. ZIP: 53717-1914
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOFTWARE: PatentIn Release #1.0, Version
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                              TTTTCTAAATACATTC
                          atatctacaagccatc 1642
                                                                                   aagcagaaggccatcctgacggatggcctttttgcgtttctacaaactcttcctgtcgtc 1626
                                                                                                                                                   aagcaacggcccggagggtggcgggcaggacgcccgccataaactgccaggcatcaaatt 1566
                                                                                                                                                                                                                       ttgtcggtgaacgctctcctgagtaggacaaatccgccgggagcggatttgaacgttgcg 1506
                                                                                                                                                                                                                                                                                          aggcatcaaataaaacgaaaggctcagtcgaaagactgggcctttcgttttatctgttgt 1446
                                                                                                                                                                                                                                                                                                                                              TGAAACGCCGTAGCGCCGATGGTAGTGTGGGGGTCTCCCCATGCGAGAGTAGGGAACTGCC
                                                                                                                                                                                                                                                                                                                                                            tgaaacgccgtagcgccgatggtagtgtgggggtctcccccatgcgagagtagggaactgcc 1386
                                                                                                                                     AAGCAACGGCCCGGAGGGTGGCGGGCAGGACGCCCGCCATAAACTGCCAGGCATCAAATT
                                                                                                                                                                                                        TTGTCGGTGAACGCTCTCCTGAGTAGGACAAATCCGCCGGGAGCGGATTTGAACGTTGCG
                                                                                                                                                                                                                                                                          AGGCATCAAATAAAACGAAAGGCTCAGTCGAAAGACTGGGCCTTTCGTTTTATCTGTTGT
                                                                     AAGCAGAAGGCCATCCTGACGGATGGCCTTTTTGCGTTTCTACAAACTCTTTTTGTTTAT
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8000 Excelsior Drive, Sui
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         circular
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (genomic)
 1078
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 332.8; DB 4;
Pred. No. 3.4e-73;
- ""matches 27;
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Gaps

0

1002

942

882

822

Job time: 13787 sec